US Army Corps of Engineers

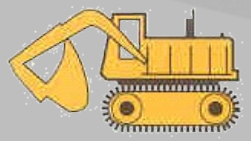
Ecuaconstrucciones s.a.

DESIGN AND BUILD PERMANENT PARTY DORMITORY – FOL MANTA AIR BASE

NOVEMBER 2003

CELEBRATE SAFETY
DACA01-02-C-0001

AGENDA



OVERVIEW

PROJECT

CONCLUSION

OVERVIEW

ECUACONSTRUCCIONES S.A.

Ecuaconstrucciones is a construction company dedicated to planning, control, construction and commercialization of multidisciplinary projects like as: civil construction, drain and rain services, water supply systems, paving projects, among others.

ECUACONSTRUCCIONES S.A.

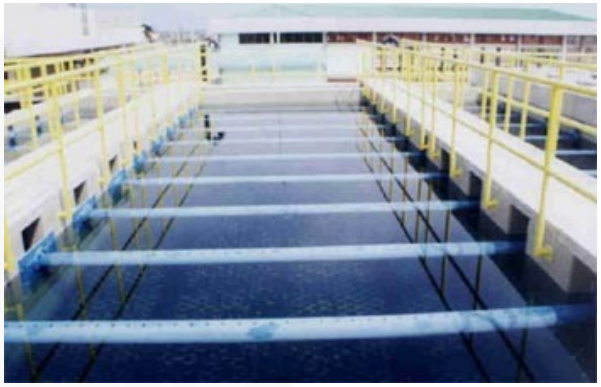
Between our projects are the construction of:

Permanent Party Dormitories at Manta Air Base

Shell´s Gas Station

IMAX Theatre

ECUACONSTRUCCIONES S.A.



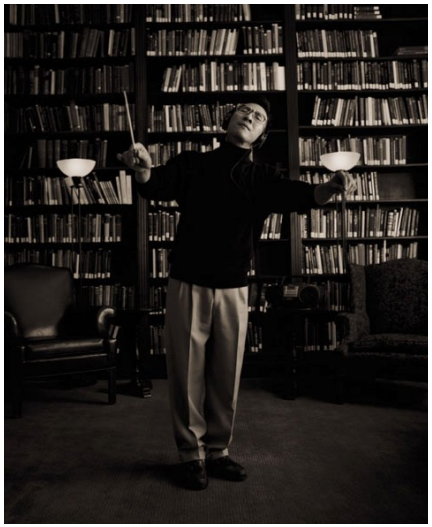
Salinas´s Water Supply System

Paving Areas

Buying and Selling Markets

Recreational Parks

Drain Systems



PROJECT

ECUACONSTRUCCIONES S.A.

Our company´s best interest is the production of quality projects, giving Safety a very high priority, and our personnel a very safety environment.

ECUACONSTRUCCIONES´S SAFETY RECORD

Contract Title:

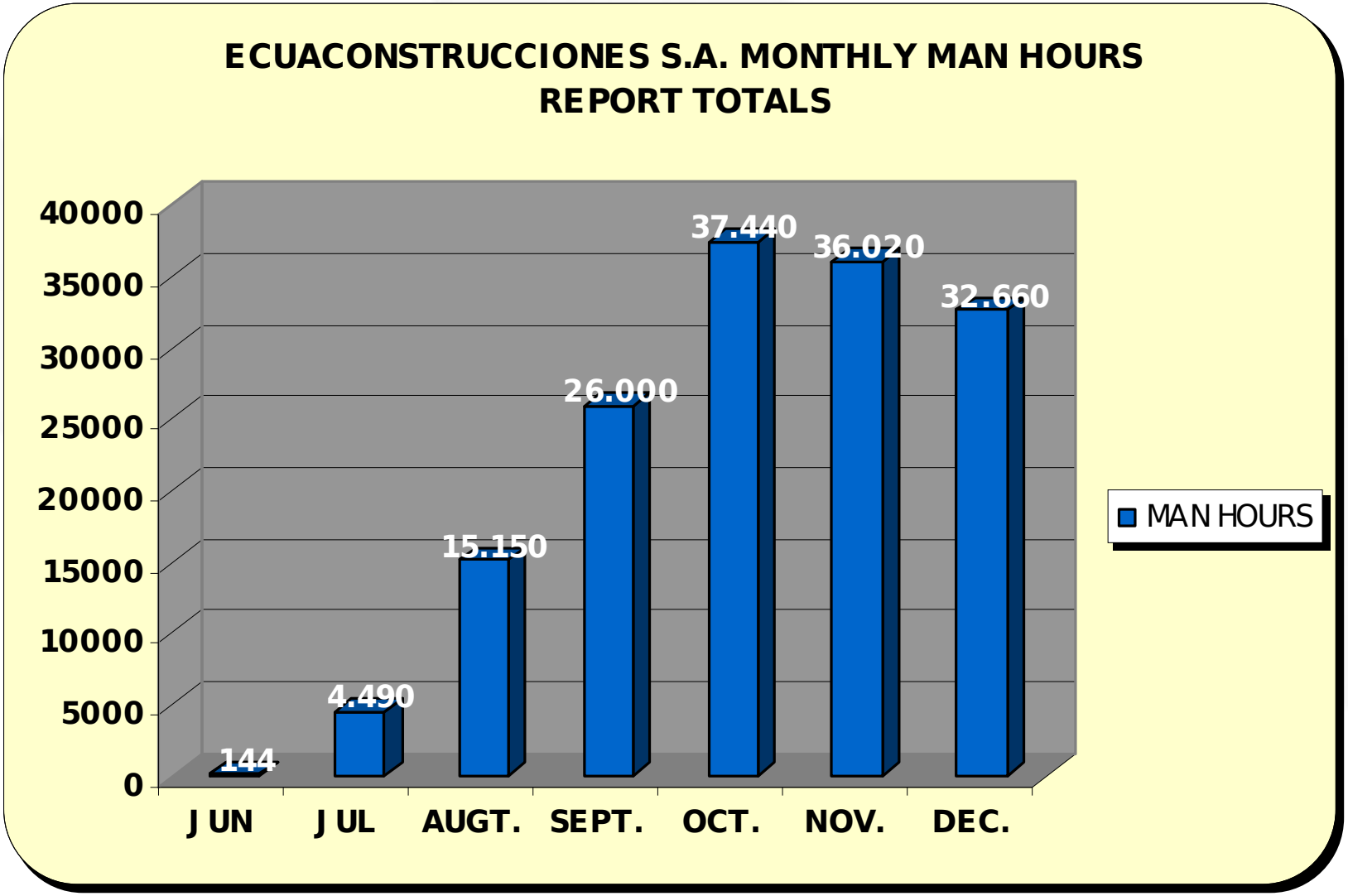
Design/Construct Permanent Party Dormitory. Manta Air Base-Ecuador

Period of evaluation:

June 2002 – December 2002

In this particular project, PERMANENT PARTY DORMITORIES, a total of 151,904 man-hours with no loss of time accidents have been accumulated over a period of 161 working days.

ECUACONSTRUCCIONES´S MAN HOURS STATISTICS



THE PROGRAM OF ACCIDENTS PREVENTION

This program included an analysis of all the hazardous activities for the different phases of work in the field, and required to take into consideration the experience of the workers and their knowledge of the activities that they will carry out. It will also take into consideration the specific training that the workers may have had in industrial safety.

Another activities of the program were providing the technical personnel and workers, with all the safety equipment necessary for their personal protection. It was an obligation of the technical personnel and workers, to keep it in good condition and made good use of the personal protection equipment that will prevent injuries and accidents.

PROTECTION SIGNS

At the entrances to the work place, safety signs in Spanish and English were placed as well as on the equipment to alert all the personnel and visitors of the possible safety hazards.

CONSTRUCTION PROCESS

WEEKLY PLANNING & EMERGENCY PROCEDURES

At the beginning of the every work week, **Safety Meetings** were held to revise the previous activities and to plan the work that will be carried out during the whole week. **The job Safety Meetings** were directed by the **Safety Engineer**, and all the matters treated in the meetings including the observations made, were documented and dated.

The procedures for handling emergency situations and the emergency resources available as well as the emergency telephone numbers necessary to be contacted, were periodically reviewed with the technical personal and field supervisors.

A first aid kit for treatment of minor injuries is kept at the jobsite office.

CONSTRUCTION PROCESS

EXCAVATION & COMPACTION

For all the work of excavation and compaction in the construction area, the perimeter was protected with fence post and security tape during the excavation process.

Workers during concrete casting operations wearing personal protection equipment.

CONSTRUCTION PROCESS

WORK AT HEIGHTS

At heights more than 1. 5 meters the personnel always wore the safety harness and lifelines . For carpenters working in heights, scaffolds with out riggers were used to minimize the hazards and the possibility of accidents.

Selected qualified personnel will always do the works in heights under the supervision of the Industrial Safety Inspector.

CONSTRUCTION PROCESS

PROTECTION RAILS & CONCRETE CASTING OF FLOOR SLABS

Protection rails were made with hard wood, around the perimeter of the second floor and roof slabs.

The height of the protection rail, to prevent workers from falling, were 105cm. These guardrails were built to resist a lateral force of more than 200 pounds.

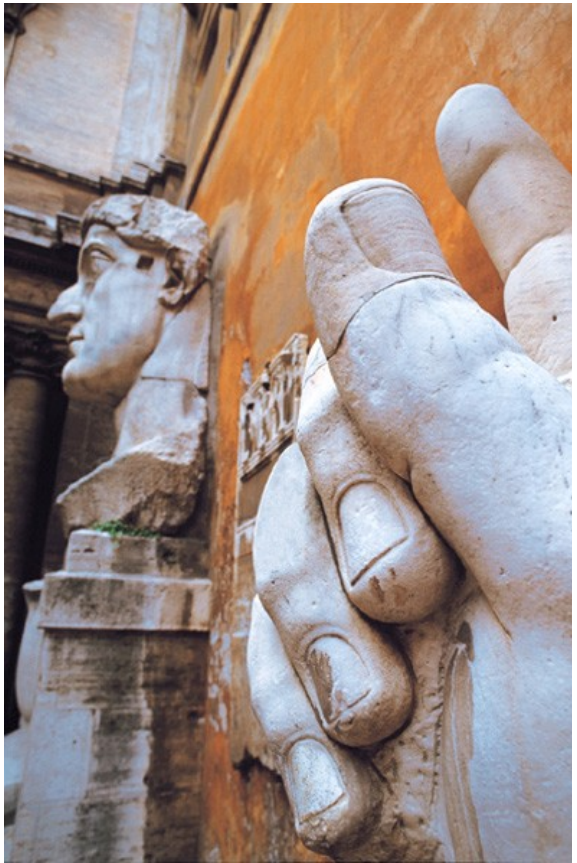
CONSTRUCTION PROCESS

PROTECTION RAILS & CONCRETE CASTING OF FLOOR SLABS

The personnel were provided with plenty of drinking water and some of the personnel was sent to take a rest brake and were replaced by well-rested personnel, to continue with the concrete finishing activities.

Before each concrete casting, a personnel safety meeting was held and the possible work hazards were reviewed and the use of safety equipment controlled.

CONCLUSIONS



CONCLUSIONS

- Ecuaconstrucciones S.A. is a company that has always given Safety a very high priority and this has resulted in an excellent jobsite safety record.

- In this particular project, PERMANENT PARTY DORMITORIES, a total of 151,904 man-hours with no loss of time accidents have been accumulated over a period of 161 working days.

- It is very important to stress that technical personnel and workers were capacitated with a Program of accidents prevention, which allows them to realize about the importance of working safety at any time.

- Although ECUACONSTRUCCIONES has, as indicated previously, a very good safety record; working with the U.S. Army Corps of Engineer safety standards has resulted in the assimilation of better safety procedures and policies which have most definitely helped in maintaining a safe environment on this project and at the same time shaping our safety policies for the future.